

age at which they are studied. Among the recommendations are the following:—(1) the teaching of elementary physical measurements should form part of the mathematical course; (2) preparatory schools should teach natural history (including some physical geography) and the rudiments of physics; (3) qualitative work deserves respect, and good scientific literature and lectures should not be underrated; (4) the claims of geography and biology should receive more recognition; (5) all science work of boys should be brought into closer touch with everyday experience; (6) more laboratory assistants should be provided. Mr. Eggar commented on the report, and asked for attention to the historical order of discovery in framing courses of instruction.

Next on the programme came an open discussion on note-taking and reports of work, which was initiated by the president. Prof. Miall, and subsequently Mr. Fletcher, advised that pupils be trained to arrange their work under heads and subheads, and that these should be the most important feature of their notes. The use of intelligible contractions was advisable. Prof. R. A. Gregory directed attention to the waste of labour by writing as lecture-notes matter which was easily available in books. The Rev. T. Corcoran urged that the mapping of histories should be performed by the students themselves. He also advocated the introduction of "scientific" note-taking into classical subjects; in other words, the teachers of classics should take a leaf out of the book of their colleagues on the scientific side. Dr. Kimmins had been impressed with the good quality of the note-taking by American boys and girls; they showed the capacity to seize upon the important point in an argument. He objected to the waste of time involved in making fair copies of notes, while admitting that parents gloat over elaborate note-books. Mr. Mayhowe Heller expressed doubts as to the wisdom of demanding notes from quite young students.

The discussion on clear speaking and reading aloud was opened by Mrs. Mackinnon, who fell under the suspicion of giving us an object-lesson in this art. Besides attending to final consonants and making the children read at a distance from the audience, she made the child give an epitome of the passage before attempting to read aloud. This secures that what is to be read has been understood, which is absolutely necessary for good reading. Miss Cooper wished more attention to be given to phrasing, including stress and pause. Prof. Miall pleaded for a revival of reading aloud in the family. The Rev. Dr. Delaney having stated that boys come to the university unable to speak properly, despite the years spent in secondary schools, Mr. G. F. Daniell suggested that boys ought to be taught to speak well after, as well as before, the break of voice. Dr. Ernest Gray raised the question of the influence of phonographic writing on speaking. He also spoke of the way in which speakers turn their heads without turning their bodies, and pointed out that no successful orator falls into this error.

Dr. G. Archdall Reid gave a paper on acquirement in education. He stated that everything we learn is acquired. The new-born baby is not intelligent; he has only great capacity to learn to become intelligent. When we send a child to school we design that he shall not merely learn knowledge more abstruse than that which he can pick up, like a savage, from the ordinary experiences of life, but also acquire right habits of thought or mental dexterities. The best educational subjects at the same time supply useful knowledge and exercise the thinking faculty. Knowledge to be useful must be remembered; to be remembered it must link up with our subsequent experiences. Prof. Culverwell disagreed with many of Dr. Reid's views, and put forward theories relating to mental change and the transference of energy within the brain. Profs. H. Browne and R. M. Henry upheld the teaching of classics, and Principal Griffiths objected to the fight between the protagonists of science and classics as a mischievous and unnecessary quarrel.

Prof. J. A. Green read an important paper on experimental studies in education. The author gave a sketch of work which is being prosecuted abroad which will greatly help to lay a wise foundation for future teaching practice. The teacher, as such, is not primarily a re-

searcher, but he wants the results of research in a usable form, and university departments of education should be organised so as to provide them. Laboratories have already been instituted in Antwerp, St. Petersburg, Leipzig, Milan, and Budapest for experimental inquiry into the problems which confront the teacher. Miss Foxley gave an account of the work which is being done in Manchester under Prof. Findlay's direction. The audience was impressed with the importance of the subject, and heard with pleasure that a research committee of Section L has been appointed, with Prof. Findlay as chairman and Prof. Green as secretary, to inquire into the methods and results of research into the mental and physical factors involved in education.

By kind permission of the authorities, visits were paid to Maynooth, Loreto Abbey Convent School at Rathfarnham, Wesley College, Christian Brothers' Schools, Alexandra College, Mountjoy School, and Artane Industrial School.

The section was indebted to the Rev. T. Corcoran for a useful exhibit of maps to aid in the teaching of Greek and Irish histories.

The interim report on the conditions of health in schools, prepared for Section L, was presented in the Physiology Section. It was, unfortunately, impossible to arrange a joint meeting of the two sections. Reference was made to the relation between the educational and other sections of the association by Sir Philip Magnus at the opening meeting. He pointed out that Section L was able to help the other sections by discussing the methods of teaching the various branches of science with which they were concerned, and he hoped that the older sections would refer to the education section the consideration of problems relating to methods of instruction.

Twenty-two educational associations were officially represented at the meeting, and it is desirable that means should be devised to render the interest thus displayed of more effect in promoting the work of the section and in spreading the influence of that work.

G. F. DANIELL.

FORTHCOMING BOOKS OF SCIENCE.

AGRICULTURE.

George Bell and Sons.—The Farm and the Dairy, Prof. J. P. Sheldon, new edition, illustrated. *The Cambridge University Press.*—Tropical Agriculture, J. C. Willis. *Cassell and Co., Ltd.*—Live Stock; Dairy; Equipment, each by P. McConnell, illustrated. *Williams and Norgate.*—Principles and Practice of Agricultural Analysis: a Manual for the Study of Soils and Fertilisers and Agricultural Products, H. W. A. M. Wiley, vol. ii., Fertilisers.

ANTHROPOLOGY.

A. and C. Black.—Ancient Tales and Folk-lore of Japan, R. G. Smith, illustrated. *J. M. Dent and Co.*—Folk-lore in Lowland Scotland, E. Simpson. *Macmillan and Co., Ltd.*—The Golden Bough: a Study in Magic and Religion, Prof. J. G. Frazer, third edition, Part i., The Magic Art and the Evolution of Kings; Totemism and Exogamy, Prof. J. G. Frazer, 2 vols. *Milner and Co., Ltd.*—Prehistoric Man, J. McCabe; Races of Man, Dr. A. C. Haddon, F.R.S. *John Murray.*—The South African Natives: their Present Condition and Progress, edited by the South African Native Races Committee. *Kegan Paul and Co., Ltd.*—The Scope and Content of the Science of Anthropology, J. Dieserud.

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Driesch, vol. ii.; A Treatise on Zoology, edited by Sir E. Ray Lankester, F.R.S., part i., first fascicle, Introduction and Protozoa, Prof. S. J. Hickson, F.R.S., Dr. F. W. Gamble, J. J. Lister, H. M. Woodcock, and the late Prof. Weldon, F.R.S., illustrated; part vii., Crustacea, W. T. Calman, illustrated; part ix., Vertebrata Craniata, Dr. E. S. Goodrich, illustrated. *Blackie and Son, Ltd.*—The World of Animal Life, F. Smith, illustrated; Tales and Talks in Nature's Garden, A. T. Morris, illustrated. *The Cambridge University Press.*—Darwin and Modern Science, a Series of Essays written in Commemoration of the Centenary of the Birth of Charles Darwin and of the fiftieth anniversary of the publication of the "Origin of Species," edited by Prof. A. C. Seward, F.R.S.; Ticks, a Monograph of the Ixodea, Prof. G. H. F. Nuttall, F.R.S.; Mendel's Principles of Heredity in Application, Prof. W. Bateson, F.R.S.; The New Flora of the Volcanic Island of Krakatau, Prof. A. Ernst, translated by Prof. A. C. Seward, F.R.S.; Trees: a Handbook of Forest Botany for the Woodlands and the Laboratory, the late Prof. H. Marshall Ward, F.R.S., vol. iv., Fruits, and vol. v., Form and Habit, with an Appendix on Seedlings, edited and prepared for publication by Prof. P. Groom. *W. and R. Chambers, Ltd.*—Book of British Birds, J. M. Boraston, illustrated. *Chapman and Hall, Ltd.*—The Craftsman's Plant-book: or Figures of Plants selected from the Old Herbals, R. G. Hatton, illustrated. *T. and T. Clark.*—The Bible of Nature, Prof. J. A. Thomson. *Mr. Robert Culley.*—Bird Hunting through Wild Europe with Gun and Camera, R. B. Lodge, illustrated; The Young People's Nature-study Book: in Garden, Field, and Wood, S. N. Sedgwick, illustrated. *J. M. Dent and Co.*—Animals at Home, W. P. Westell; Nature-study, Prof. J. R. A. Davis, illustrated; Plant Life, E. Evans, illustrated; Our Forests and Woodlands, Dr. J. Nisbet, new edition, illustrated; The Ruskin Nature Readers, edited by G. R. Bennett, illustrated. *Duckworth and Co.*—The Scientific Feeding of Animals, Dr. O. Kellner, translated by Dr. W. Goodwin. *Everett and Co.*—The Stockowners' Manual, F. Townend Barton, illustrated; The Cat: its Points and Management in Health and Disease, F. Townend Barton, illustrated. *C. Griffin and Co., Ltd.*—Technical Mycology: the Utilisation of Micro-organisms in the Arts and Manufactures, Dr. F. Lafar, vol. ii., part ii. *T. C. and E. C. Jack.*—The British Bird Book, F. B. Kirkman, in parts, illustrated; The Dwellers Series, the Rev. Theodore Wood, illustrated: (1) Dwellers in the Garden; (2) Dwellers in the Pond; (3) Dwellers on the River Bank; (4) Dwellers in the Woodland; (5) Dwellers in the Meadows; (6) Dwellers Underground. *John Lane.*—Birds of the Plains, D. Dewar, illustrated; Holly, Yew, and Box, with Notes on other Evergreens, W. Dallimore and T. Moore; The Book of Fern Culture, A. Hemsley; The Book of the Cottage Garden. *Crosby Lockwood and Son.*—The Complete Grazier, and Farmer's and Cattle Breeder's Assistant: a Compendium of Husbandry, new edition, illustrated. *Longmans and Co.*—The Human Species: considered from the Standpoints of Comparative Anatomy, Physiology, Pathology, and Bacteriology, Dr. L. Hopf, translation, illustrated. *Macmillan and Co., Ltd.*—Cambridge Natural History, vol. iv., Crustacea, G. Smith; Trilobites, &c., H. Woods; Limulus, Linguatulida, and Tardigrada, A. E. Shipley, F.R.S.; Spiders, Mites, Scorpions, &c., C. Warburton; Pycnogonids, Prof. D'Arcy W. Thompson, C.B., illustrated. *Milner and Co., Ltd.*—Evolution, J. McCabe. *John Murray.*—The Problem of Age, Growth, and Death, a Study of Cytomorphosis, Dr. C. S. Minot, illustrated; Intracellular Enzymes, Dr. H. M. Vernon; Handbook of Commercial Products of India, Sir G. Watt. *Kegan Paul and Co., Ltd.*—The Transformations of the Animal World, C. Déperet; Human Speech: its Physical Basis, N. C. Macnamara. *G. Philip and Son, Ltd.*—Philips' Nature Calendar, 1909: a Systematic Guide to Natural Observations, for the whole Year, Month by Month, for Use in Schools and in the Home. *Sir I. Pitman and Sons, Ltd.*—Nature Notes and Notions, being a Third Year's Work with Mother Nature, Mrs. A. L. Sandford. *Swan Sonnenschein and Co., Ltd.*—The Student's Text-book of Zoology, Prof. Sedgwick,

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MEDICAL SCIENCE.

F. Alcan (Paris).—Traité complet des Maladies mentales, publié sous la direction du Dr. Marie, Tome i., Traité complet du Diabète, Prof. Lépine; Manuel d'Histologie pathologique, Profs. Cornil and Ranvier and Drs. Brault and Letulle, Tome iv.; Psycho-physiologie de la Douleur, Drs. J. Joteyko and M. Stefanowska. *Edward Arnold.*—Applied Physiology: a Handbook for Students of Medicine, Dr. R. Hutchison; The Body at Work, Dr. A. Hill, illustrated. *Appleton and Co.*—A Text-book of Treatment, edited by R. J. Ferguson, 3 vols.; General Surgery, E. Lexer, translated by D. Lewis; A Text-book of Minor Surgery, E. M. Foote; Materia Medica and Therapeutics, Dr. S. S. Cohen; Anatomy of the Brain and Spinal Cord, H. E. Santee, new edition; Manual of Diseases of the Ear, Nose, and Throat, J. J. Kyle. *Baillière, Tindall and Cox.*—Physiological Principles of Treatment, L. Brown; Bacteriology of the Eye, T. Axenfeld, translated by A. Macnab. *A. and C. Black.*—Tuberculosis: its Origin and Extinction, W. P. Turner. *J. and A. Churchill.*—A Dictionary of Medical Treatment, Dr. A. Latham; and new editions of The Practice of Medicine, Dr. F. J. Charteris; An Introduction to the Study of Materia Medica, Prof. H. G. Greenish; and A Manual of Bacteriology, Clinical and Applied, Prof. R. T. Hewlett. *John Lane.*—A Short Practice of Aural Surgery, for the Use of Students and Practitioners, J. A. Jones; Minor Operations. *H. K. Lewis.*—The Mind and its Disorders, Dr. W. H. B. Stoddart, illustrated; The Operative Surgery of the Ear, C. E. West and S. Scott, illustrated; The Causation of Sex, E. R. Dawson; and new editions of Vaccine Therapy and the Opsonic Method of Treatment, Dr. R. W. Allen, illustrated; and A Manual of Infectious Diseases, Dr. E. W. Goodall and the late Dr. Washbourn, illustrated. *Longmans and Co.*—A new edition of Quain's Elements of Anatomy, vol. iii., Neurology, Profs. E. A. Schäfer, F.R.S., and J. Symington, F.R.S., Part i., comprising the General Structure of the Nervous System, and the Structure of the Cerebro-spinal Axis, illustrated; An Atlas of Skiagrams, illustrating the Development of the Teeth, with Explanatory Text, Prof. J. Symington, F.R.S., and Dr. J. C. Rankin. *Macmillan and Co., Ltd.*—A System of Medicine, by many writers, edited by Sir T. Clifford Allbutt, K.C.B., F.R.S., and Dr. H. D. Rolleston, second edition, vol. iv., in two parts, Part ii., Diseases of the Ear and Throat. *Milner and Co., Ltd.*—Human Physiology, Dr. A. Wilson. *John Murray.*—Therapeutics of the Circulation, Sir T. Lauder Brunton, Bart., F.R.S.; Intracellular Enzymes, Dr. H. M. Vernon. *J. Nisbet and Co., Ltd.*—Common Affections of the Liver, Dr. W. Hale White; The Diagnosis and Treatment of Surgical Affections of the Knee, Sir W. H. Bennett; Movable Kidney, W. A. Lane; Hip Disease in the Young, J. Berry; Prostatectomy, J. W. Thomson Walker; Enuresis, J. H. Thursfield. *Kegan Paul and Co., Ltd.*—Diseases of the Ear, M. Yearsley, illustrated; The Wife as the Family Physician: a Practical Work of Reference for the Family in Health and Sickness, with Special Attention to the Care of Children, &c., Dr. A. F. Dueckelmann,

translated and adapted with the collaboration of a staff of eminent physicians, illustrated. *G. P. Putnam's Sons.*—The Essentials of Dietetics, A. E. Pope; The Muscles of the Eye, L. Howe, 2 vols., illustrated; Insomnia and Nerve Strain, H. S. Upson, illustrated. *Rebman, Ltd.*—A Text-book of General Pathology, Drs. J. M. Beattie and W. E. C. Dickson, illustrated; A Text-book of Special Pathology, Drs. J. M. Beattie and W. E. C. Dickson, illustrated; A Manual of Practical X-Ray Work, Drs. D. Arthur and J. Muir, illustrated. *T. Fisher Unwin.*—Pain: its Causation and Diagnostic Significance in Internal Diseases, Dr. R. Schmidt, translated and edited by Drs. K. M. Vogel and H. Zinsser.

METALLURGY.

Appleton and Co.—The Story of Iron and Steel, J. R. Smith, illustrated; The Story of Gold, J. R. Smith, illustrated. *Edward Arnold.*—The Dressing of Minerals, Prof. H. Louis, illustrated. *A. Constable and Co., Ltd.*—Gold and Precious Metals, Dr. T. K. Rose. *C. Griffin and Co., Ltd.*—Antimony: its History, Chemistry, Mineralogy, Geology, Metallurgy, Uses and Preparation, Analysis, Production and Valuation, C. Y. Wang, illustrated; Alloys and their Industrial Applications, E. F. Law, illustrated; Metallic Alloys: their Structure and Constitution, G. H. Gulliver, illustrated. *Sir I. Pitman and Sons, Ltd.*—Refining of Gold, D. Clark. *Williams and Norgate.*—Metallurgy: a Condensed Treatise, H. Worsor.

TECHNOLOGY.

A. Constable and Co., Ltd.—The Manufacture of Leather, H. G. Bennett; Textiles and their Manufacture, A. F. Barker, illustrated; The Manufacture of Paper, R. W. Sindall; Timber, J. R. Batherden; Electric Lamps, M. Solomon. *Longmans and Co.*—Lathes Design for High- and Low-speed Steels: a Treatise on the Kinematical and Dynamical Principles governing the Construction of Metal Turning Lathes, J. T. Nicolson and D. Smith, illustrated; Notes on, and Drawings of, a Four-cylinder Petrol Engine, arranged for Use in Technical and Engineering Schools, H. J. Spooner; Machine Drawing and Design for Beginners: an Introductory Work for the Use of Technical Students, H. J. Spooner; Strength of Materials, A. Morley, diagrams; A History of Architectural Development, in 3 vols., vol. ii., Mediæval, F. M. Simpson, illustrated. *Milner and Co., Ltd.*—Engineers' and Machinists' Handbook, H. A. Golding, illustrated; 2000 Trade Secrets, J. Tomlin, illustrated; Elementary Science, applied to Sanitation and Plumbers' Work, A. Herring-Shaw, illustrated. *E. and F. N. Spon, Ltd.*—The Calculation of Change Wheels for Screw-cutting on Lathes: a Practical Manual for the Use of Manufacturers, Students, and Lathemen, V. de Vries. *Whittaker and Co.*—Practical Sheet and Plate Metal Work, E. A. Atkins, illustrated.

MISCELLANEOUS.

F. Alcan (Paris).—De la Méthode dans les Sciences; Les Problèmes de la Science, Prof. Enríquez. *Edward Arnold.*—A Text-book of Experimental Psychology, Dr. C. S. Myers. *Baillière, Tindall and Cox.*—Compendium of Food Microscopy, G. E. Clayton. *George Bell and Sons.*—Elementary Experiments in Psychology, C. E. Seashore. *A. and C. Black.*—The Metaphysics of Nature, C. Read, new edition; Milk: its Nature and Composition, C. M. Aikman, new edition, illustrated; The Problem of Logic, W. R. B. Gibson, with the cooperation of A. Klein. *Blackie and Son, Ltd.*—The Universe: or the Infinitely Great and the Infinitely Little, F. A. Pouchet, new and revised edition, illustrated. *Cassell and Co., Ltd.*—The Royal Botanic Gardens, Kew, Historical and Descriptive, W. J. Bean, with an introduction by Sir W. Thiselton-Dyer, F.R.S., illustrated. *Chapman and Hall, Ltd.*—My Life: a Record of Events and Opinions, Dr. A. R. Wallace, F.R.S., new edition, illustrated. *Duckworth and Co.*—Pros and Cons of Vivisection, Dr. C. Richet. *T. N. Foulis.*—The Trout Waters of England: being a Guide to the Open English Trouting Streams and Reservoirs, W. M. Gallichan. *H. Frowde.*—Folk Memory: or, the Continuity of British Archaeology, Walter Johnson; The Ethical Aspects of Evolution, W. Benett. *C. Griffin and Co., Ltd.*—A Manual of the Principles of

Sewage Treatment, Prof. Dunbar, translated by Dr. H. T. Calvert, illustrated; Hydrographic Surveying: for the Use of Beginners, Amateurs, and Port and Harbour Masters, Commander S. Messum, R.N., illustrated; Theodolite Surveying and Levelling, Prof. J. Park, illustrated. *Longmans and Co.*—Design in Nature: Illustrated by Spiral and other Arrangements in the Inorganic and Organic Kingdoms as exemplified in Matter, Force, Life, Growth Rhythms, Prof. J. B. Pettigrew, 3 vols., illustrated, vol. i.; Principles of Logic, Prof. G. H. Joyce. *Macmillan and Co., Ltd.*—Earthwork of England: Prehistoric, Roman, Saxon, Danish, Norman, and Mediæval, A. H. Allcroft, illustrated; Origin and Development of the Moral Ideas, Dr. E. Westermarck, 2 vols., vol. ii. *Milner and Co., Ltd.*—Psychical Research, F. Podmore. *John Murray.*—Hydrographical Surveying: a Description of the Means and Methods Employed in Constructing Marine Charts, the late Rear-Admiral Sir W. J. L. Wharton, K.C.B., F.R.S., new edition, revised by Rear-Admiral Mostyn Field, illustrated. *Kegan Paul and Co., Ltd.*—Milk Analysis: a Practical Treatise on the Examination of Milk and its Derivatives—Cream, Butter, and Cheese, J. A. Wanklyn, new edition, by W. J. Cooper. *Sir I. Pitman and Sons, Ltd.*—Notes of Lessons on Hygiene and Temperance, Mrs. E. H. Chadwick, introduction by Prof. G. Sims Woodhead, vol. ii.; The Teacher's Course of Elementary Science, F. Belton, Part i., Physics and Chemistry; Part ii., Plant Life. *Swan Sonnenschein and Co., Ltd.*—Thought and Things: a Study of the Development and Meaning of Thought or Genetic Logic, Prof. J. M. Baldwin, 3 vols., vol. iii., Real Logic; Outlines of Psychology, Dr. O. Külpe, translated under the supervision of Prof. E. B. Titchener, a new edition; Physiological Psychology, Prof. W. Wundt, a translation of the fifth and wholly re-written German edition by Prof. E. B. Titchener, in 3 vols., vol. ii., illustrated; Bushman Folklore, L. C. Lloyd, edited by Dr. G. M. Theal, illustrated. *The University Tutorial Press, Ltd.*—Principles and Methods of Physical Education and Hygiene, W. P. Weldon; The Science of Speech: an Elementary Manual of Phonetics for Teachers, B. Dumville. *T. Fisher Unwin.*—Prehistoric Rhodesia: an Examination of the Ethnological and Archaeological Evidences as to the Origin and Age of the Rock Mines and Stone Buildings, with a Gazetteer of Mediæval South-East Africa, R. N. Hall, illustrated. *Whittaker and Co.*—Artificial and Natural Flight, Sir H. Maxim, illustrated.

UNIVERSITY AND EDUCATIONAL INTELLIGENCE.

CAMBRIDGE.—At Emmanuel College research studentships have been awarded to members of the college as follows:—150*l.*, T. H. Laby; 140*l.*, R. D. Kleeman; 100*l.*, H. S. Tasker.

Mr. A. R. Brown, who recently returned from the Andaman Islands, where he spent two dry seasons in studying the sociology, psychology, and religion of the pigmy inhabitants, was elected on Monday to a fellowship at Trinity College in recognition of his investigations.

In connection with the visit of the members of the Congress of Electrical Units to Cambridge on Saturday next, it is proposed to confer degrees of Doctor of Science, *honoris causa*, upon Prof. S. A. Arrhenius, Prof. G. Lippmann, Dr. S. W. Stratton, and Dr. E. G. Warburg.

Prof. Bateson will deliver an inaugural lecture in the botanical lecture-room on Friday, October 23, at 5 p.m., on "The Methods and Scope of Genetics."

Mr. G. H. Hardy, of Trinity College, and Mr. J. M. Dodds, of Peterhouse, have been nominated moderators for the year beginning May 1, 1909. Mr. A. Berry, of King's College, and Mr. G. Birtwistle, of Pembroke College, have been appointed examiners for the mathematical tripos, part i. (old regulations), for the same period.

A Grace, gratefully acknowledging the munificent gift to the University by Prof. Liveing of almost the whole of the apparatus and material belonging to him in the chemical laboratory, will be brought before the Senate to-day.

DR. CHARLES E. FAWSITT, Graham Young lecturer in metallurgical chemistry in the University of Glasgow, has been appointed professor of chemistry in the University of Sydney, N.S.W.

IN addition to the usual course of Hunterian and other lectures to be delivered during the present winter session, the council of the Royal College of Surgeons of England has arranged a series of demonstrations in the theatre of the college at which specimens from the museum will be shown and their bearing on general and surgical pathology discussed. The first demonstration of the series is to be given on Friday, October 16, at 5 p.m., by Dr. Arthur Keith. The demonstrations are open to all medical men and senior students on presentation of their cards.

ON October 7 Mr. Herbert L. Storey handed over to Lancaster the extensive buildings of the Storey Institute, which he has erected and equipped at a cost of 10,500*l.* The institute itself was the gift of the late Sir Thomas Storey, to commemorate the jubilee of the late Queen's reign. In the original building are housed the public library, art gallery, lecture theatre, and laboratories for science work. Some time ago the need for an extension was felt, and Mr. Storey offered to erect new buildings. These are now completed. The new buildings provide a workshop for manual training and a class-room for domestic science. Prof. Sadler, in an address at the ceremony, spoke of the signal value of the service which private benefactors like Mr. Herbert Storey render to public education by encouraging manual training for boys and the preparation of girls for their future duties as wives and mothers. He expressed the hope that by means of Mr. Storey's gift Lancaster may find it possible to establish a day continuation school for boys and girls of from thirteen to fifteen years of age, with a course of instruction designed to give preparation for skilled industry and for home duties.

SOCIETIES AND ACADEMIES.

LONDON.

Royal Society, May 21.—"On some Features in the Hereditary Transmission of the Albino Character and the Black Piebald Coat in Rats." Paper ii. By Geo. P. Mudge. Communicated by Prof. A. D. Waller.

These experiments show that albinos breed true to albinism, whether their ancestry is pigmented or not. They further show that, though externally albinos may appear to be identical with regard to their coat characters, in reality they may be different, and that some exhibit the "ghost" of the self pattern and others that of the piebald pattern. It has been previously known for both animals and plants that some albinos carry certain colour and pattern factors, while others carry different ones, but this difference has hitherto been elucidated by means of breeding tests alone. These experiments add an ocular demonstration of the actual presence of the coat-pattern in albinos. The interpretation placed upon the coat appearances in these albinos is corroborated by the breeding results.

It is further shown that when a piebald black rat (Cr 5) is mated with one of a similar type, two classes of offspring may be obtained. One of these contains all black piebalds and the other a mixture of black piebalds and albinos in nearly equal numbers.

When a piebald black rat is mated with an albino (=Cr 5×Cr 4), it may be said that, so far as these experiments have gone, five different results will be obtained. They may be stated as follows: (1) The offspring may be all black piebalds. (2) They may be a mixture of black piebalds and albinos. (3) They may be all "Irish" forms (=a black self-coloured form). (4) They may be a mixture of albinos, black piebalds, and "Irish." (5) They may contain albinos, "Irish," and a grey form (=Cr 2). It can be shown that the divergency of the results obtained when two individuals apparently similar are mated is due to the gametic nature of the albino employed.

June 24.—"Preliminary Account of the Habits and Structure of the Anaspidiidae, with Remarks on some other Fresh-water Crustacea from Tasmania." By Geoffrey Smith.